

Title (en)

ONE-USE RETRACTING SYRINGE WITH POSITIVE NEEDLE RETENTION

Title (de)

ZURÜCKZIEHBARE EINWEGSPRITZE MIT POSITIVEM NADELHALTER

Title (fr)

SERINGUE RETRACTABLE A USAGE UNIQUE A RETENTION D'AIGUILLE FRANCHE

Publication

**EP 1567212 A4 20070718 (EN)**

Application

**EP 02808063 A 20021202**

Priority

- US 0233003 W 20021202
- OA 1200400204 A 20021202
- US 97890601 A 20011015

Abstract (en)

[origin: US6494863B1] A retracting syringe of one use has a plunger comprising a handle portion and a needle retention portion forward of the handle portion. A positive locking structure in the syringe barrel ensures the syringe is not reused. In one embodiment, the positive locking structure is a stop in the syringe barrel. The handle portion separates after one use and is removed from the syringe. In a second embodiment, the handle portion has a plurality of stepped serrations and the positive locking structure is a clip which is movable with respect to both the handle portion and the barrel. In a third embodiment, the positive locking structure is a clip fixed in an enlarged back opening of the barrel with springing points which are protected from a plurality of stepped serrations on the handle portion by a sliding collar. This one use feature can be applied to a nonretracting syringe.

IPC 8 full level

**A61M 5/00** (2006.01); **A61M 5/32** (2006.01); **A61M 5/158** (2006.01); **A61M 5/50** (2006.01)

CPC (source: EP US)

**A61M 5/3234** (2013.01 - EP US); **A61M 5/5013** (2013.01 - EP US); **A61M 5/502** (2013.01 - EP US); **A61M 5/508** (2013.01 - EP US);  
**A61M 2005/5026** (2013.01 - EP US); **A61M 2005/5033** (2013.01 - EP US)

Citation (search report)

- [XAY] WO 9707839 A1 19970306 - MDC INVEST HOLDINGS INC [US]
- [YA] EP 0341281 B1 19930324
- [YA] WO 8909630 A1 19891019 - BADER MOHANDES [DE]
- [XAY] US 5407431 A 19950418 - BOTICH MICHAEL J [US], et al
- [YA] FR 2701398 A1 19940819 - LEFEVRE LUCIEN [FR]
- [XY] US 6409701 B1 20020625 - COHN SIMON [US], et al
- [YA] US 5037394 A 19910806 - MAZURIK SERGEI M [SU], et al
- See references of WO 2004060451A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

Designated extension state (EPC)

RO

DOCDB simple family (publication)

**US 6494863 B1 20021217**; AP 1728 A 20070321; AP 2004003099 A0 20040930; AT E480277 T1 20100915; AU 2002367591 A1 20040729;  
AU 2002367591 B2 20090205; AU 2002367591 B8 20090305; AU 2009201764 A1 20090528; AU 2009201764 B2 20110428;  
BR 0212684 A 20041103; BR 0212684 B1 20120626; CA 2455160 A1 20040602; CA 2455160 C 20071113; CN 100360196 C 20080109;  
CN 1617751 A 20050518; DE 60237647 D1 20101021; DK 1567212 T3 20101213; EP 1567212 A1 20050831; EP 1567212 A4 20070718;  
EP 1567212 B1 20100908; ES 2348255 T3 20101202; HK 1077237 A1 20060210; JP 2005524513 A 20050818; OA 12765 A 20060704;  
PT 1567212 E 20101111; UA 77204 C2 20061115; WO 2004060451 A1 20040722

DOCDB simple family (application)

**US 97890601 A 20011015**; AP 2004003099 A 20021202; AT 02808063 T 20021202; AU 2002367591 A 20021202; AU 2009201764 A 20090504;  
BR 0212684 A 20021202; CA 2455160 A 20021202; CN 02827771 A 20021202; DE 60237647 T 20021202; DK 02808063 T 20021202;  
EP 02808063 A 20021202; ES 02808063 T 20021202; HK 05109127 A 20051017; JP 2004564613 A 20021202; OA 1200400204 A 20021202;  
PT 02808063 T 20021202; UA 20040402704 A 20021202; US 0233003 W 20021202